

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Serial No.				
			M-7511 US	09/825,225				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)			Applicant(s)					
			Larry D. Barto, et al					
			Filing Date	Group				
			April 3, 2001	2812				
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>ELF</i>	AQ	"Agent Enhanced Manufacturing System Initiative," Technologies for the Integration of Manufacturing Applications (TIMA) (October 1997), NIST Advanced Technology Program <a href="http://jazz.nist.gov/atpcf/pjbrieft/pjbrief.cfm?ProjectNumber=97-05-0018">http://jazz.nist.gov/atpcf/pjbrieft/pjbrief.cfm?ProjectNumber=97-05-0018</a> , September 6, 1999						
<i>ELF</i>	AR	"Factory Integration," The National Roadmap for Semiconductors: Technology Needs, 1997 Edition <a href="http://notes.sematech.org/ntrs/PublNTRS.nsf/pages/97melec.htm">http://notes.sematech.org/ntrs/PublNTRS.nsf/pages/97melec.htm</a>						
<i>ELF</i>	AS	Axtell, Robert and Joshua Epstein, "Distributed Computation of Economic Equilibria via Bilateral Exchange," <i>Brookings Institution and Santa Fe Institute</i> , March 1997.						
Examiner <i>ELF</i>		Date Considered <i>1/14/03</i>						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		Applicant(s)	
OCT 15 2001 PATENT & TRADEMARK OFFICE		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED

MAR 14 2002

Technology Center 2100

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EE	AQ	Baumgärtel, H., S. Bussman, and M. Klosterberg, "Combining Multi-Agent Systems and Constraint Techniques in Production Logistics," <i>Proceedings of Artificial Intelligence, Simulation, and Planning in High Autonomous Systems</i> , 1996
EE	AR	Bonvik, Asbjørn M, "Performance Analysis of Manufacturing Systems Under Hybrid Control Policies," <i>Doctoral Thesis Proposal</i> , September 22, 1995, pp. 1-15
EE	AS	Bonvik, Asbjørn M, "Performance Analysis of Manufacturing Systems Under Hybrid Control Policies," <i>Doctoral Thesis Proposal</i> , October 3, 1995, pp. 1-15

Examiner *EE*

Date Considered

1/14/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  OCT 15 2001 PATENT & TRADEMARK OFFICE		Applicant(s)	
(Use several sheets if necessary)		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED

MAR 14 2002

Technology Center 2100

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation	Yes	No
	AL								
	AM								
	AN								
	AO								
	AP								

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>EL</i>	AQ	Bonvik, Asbjorn M., Christopher Couch, Stanley B. Gershwin, "Improving a Kanban Controlled Production Line Through Rapid Information Dissemination," July 10, 1995
<i>EL</i>	AR	Burke, P. and P. Prosser, "The Distributed Asynchronous Scheduler," <i>Intelligent Scheduling</i> , Morgan Kaufman Publishers, Inc., San Francisco, 1994 pp. 309-322
<i>EL</i>	AS	Butler, J. and H. Ohtsubo, "ADDYMS: Architecture for Distributed Dynamic Manufacturing Scheduling," <i>Artificial Intelligence Applications in Manufacturing</i> , AAAIPress/The MIT Press, Menlo Park, CA, 1992, pp. 199-214

Examiner *EL* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		Applicant(s)	
OCT 15 2001 PATENT & TRADEMARK OFFICE		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						RECEIVED
	AB						MAR 14 2002
	AC						Technology Center 2100
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EEF	AQ	Ehteshami, Babak, Raja G. Petrkian and Phyllis M. Shabe, "Trade-Offs in Cycle Time Management Hot Lots," <i>IEEE Transactions on Semiconductor Manufacturing</i> , Vol. 5, No. 2, pp. 101-106
EEF	AR	Fordyce, K. and G.G. Sullivan, "Logistics Management System (LMS): Integrating Decision Technologies for Dispatch Scheduling in Semiconductor Manufacturing," <i>Intelligent Scheduling</i> , Morgan Kaufman Publishers, Inc., San Francisco, 1994 pp. 309-322
EEF	AS	Fordyce, Kenneth, "Logistics Management System (LMS): An Advanced Decision Support System for Fourth Decision Tier-Dispatch or Short Interval Scheduling," pp. 1-58

Examiner *Ellie Ehr* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.		Serial No.			
			M-7511 US		09/825,225			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			Applicant(s)					
			Larry D. Barto, et al					
OCT 15 2001 PATENT & TRADEMARK OFFICE			Filing Date		Group			
			April 3, 2001		2812			
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>ELF</i>	AQ	Gere, William S. Jr., "Heuristics in Job Shop Scheduling," <i>Management Science</i> , Vol. 13, No. 3, November 1966, pp. 167-191						
<i>ELF</i>	AR	Glassey, C. Roger and Maruricio G. C. Resende, "Closed-Loop Job Release Control for VLSI Circuit Manufacturing," <i>IEEE Transactions on Semiconductor Manufacturing</i> Vol. 1, No. 1, February 1988						
<i>ELF</i>	AS	Hynyen, J.E., "BOSS: An Artificially Intelligent System for Distributed Factor Scheduling," <i>Computer Applications in Production and Engineering</i> , Elsevier, 1989, pp. 667-677						
Examiner <i>Wit</i>	<i>ZL</i>	Date Considered <i>1/14/03</i>						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Serial No.				
			M-7511 US	09/825,225				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  OCT 15 2001 PATENT & TRADEMARK OFFICE C87			Applicant(s)					
(Use several sheets if necessary)			Larry D. Barto, et al					
			Filing Date	Group				
			April 3, 2001	2812				
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA						<b>RECEIVED</b>	
	AB						<b>MAR 14 2002</b>	
	AC						<b>Technology Center 2100</b>	
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>ELF</i>	AQ	Interrante, L. and S. Goldsmith, "Emergent Agent-Based Scheduling of Manufacturing Systems," <i>Proceedings of Workshop on Agent-Based Manufacturing</i> , 1998, pp. 47-57						
<i>ELF</i>	AR	Juba, Robert C., Paul N. Keller, Alton F. Verity, "Production Improvements Using a Forward Scheduler," Undated.						
<i>ELF</i>	AS	Li, Shu, Tom Tang, Donald W. Collins, "Minimum Inventory Variability Schedule With Applications in Semiconductor Fabrication," <i>IEEE Transactions on Semiconductor Manufacturing</i> , Vol. 9, No. 1, February 1996, pp. 145-149						
Examiner <i>ELF</i> <i>Zh</i>	Date Considered	1/14/03						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		Applicant(s)	
OCT 15 2001 U.S. PATENT & TRADEMARK OFFICE		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						RECEIVED
AB						MAR 14 2002
AC						Technology Center 2100
AD						
AE						
AP						
AG						
AH						
AI						
AI						
AK						

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						
	AD						
	AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ELF	AQ	Lin, G.Y.J and J. Solberg, "Integrated Shop Floor Control Using Autonomous Agents," <i>IIE Transactions</i> , 24(3):57-71, 1992
ELF	AR	Lu, Steve C.H., Deepa Ramaswamy, P.R. Kumar, "Efficient Scheduling Policies to Reduce Mean and Variance of Cycle-Time in a Semiconductor Manufacturing Plants," <i>IEEE Transactions Semiconductor Manufacturing</i> , :Vol 7, No. 3, August 1994, pp. 374-388
ELF	AS	Martin-Vega, Louis A., Mark Pippin, Elaine Gerdon and Randy Burcham, "Applying Just-in-Time in a Wafer Fab: A Case Study," <i>IEEE Transactions on Semiconductor Manufacturing</i> , Vol. 2, No. 1, February 1999, pp. 16-22

Examiner *Ellie Elf* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>OCT 15 2001</i>		Applicant(s)	
(Use several sheets if necessary)		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						
AB						MAR 14 2002
AC						Technology Center 2000
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>ELF</i>	AQ	Murthy, S., R. Akkiraju, J. Rachlin, and F. Wu, "Agent-Based Cooperative Scheduling," Proceedings of AAAI Workshop on Constraints and Agents, AAAI Press, 1997 pp. 112-117
<i>ELF</i>	AR	"ObjectSpace Fab Solutions Semiconductor Product Development Overview," Presented at SEMICON Southwest, 1998.
<i>ELF</i>	AS	Parunak, Van and Larry Barto, "Agents Do It In Time, Experiences with Agent-Based Manufacturing Scheduling," Presentation, Conference Proceeding "Embracing Complexity," Sponsored by Earnest & Young, July 27, 1999.

Examiner *Elliot Elf* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Serial No.				
			M-7511 US	09/825,225				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			Applicant(s)					
OCT 15 2001 PATENT & TRADEMARK OFFICE			Larry D. Barto, et al					
			Filing Date	Group				
			April 3, 2001	2812				
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date	
	AA						RECEIVED APR 10 2001	
	AB						MAR 14 2002	
	AC						Technology Center 2100	
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>ELF</i>	AQ	Parunak, Van, "Agent Based Models and Manufacturing Processes, <i>Presentation</i> , " Conference Proceeding "Embracing Complexity," Sponsored by Earnest & Young, July 1999.						
<i>ELF</i>	AR	Radin, Dan - Presenter, "Agent Enhance Manufacturing Systems Initiative (AEMSI) Project," Presentation of the <i>Workshop on Industrial Agents ERIM CEC</i> , November 12-13th, 1998.						
<i>ELF</i>	AS	Ramos, C., Almeida, A. and Vale, Z. "Scheduling Manufacturing Tasks Considering Due Dates: A New Method Based on Behaviors and Agendas", <i>International Conference on Industrial and Engineering Applications of Artificial Intelligence Expert Systems</i> , Melbourne, Australia, 1995, pp. 745-751						
Examiner <i>Elliot Elf</i>		Date Considered 1/14/03						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s)	
(Use several sheets if necessary)		Larry D. Barto, et al	
OCT 15 2001 PATENT & TRADEMARK OFFICE		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						RECEIVED
AB						MAR 14 2002
AC						Technology Center 2100
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

## Foreign Patent Documents

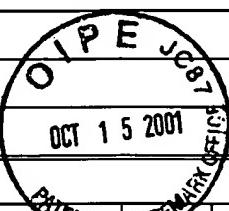
		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EEF	AQ	Resende, Mauricio Guilherme De Carvalho "Shop Floor Scheduling of Semiconductor Wafer Manufacturing," Dissertation, University of California, Berkeley, 1987
EEF	AR	Shen, W. and D. Norrie, "An Agent-Based Approach for Dynamic Manufacturing Scheduling," <i>Proceedings of Workshop on Agent-Based Manufacturing</i> , 1998, pp. 117-128
EEF	AS	Sikora, R. and M.J. Shaw, "Coordination Mechanisms for Multi-Agent Manufacturing Systems: Applications to Integrated Manufacturing Scheduling," <i>IEEE Transactions on Engineering Management</i> , Volume 44, 1997, pp. 175-187

Examiner *EEF* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Serial No.				
			M-7511 US	09/825,225				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  			Applicant(s)					
(Use several sheets if necessary)			Larry D. Barto, et al					
			Filing Date	Group				
			April 3, 2001	2812				
U.S. Patent Documents								
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate		
AA								
AB								
AC								
AD						RECEIVED MAR 14 2002		
AE						Technology Center 2100		
AF								
AG								
AH								
AI								
AJ								
AK								
Foreign Patent Documents								
							Translation	
	Document	Date	Country	Class	Subclass	Yes	No	
AL								
AM								
AN								
AO								
AP								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>ELF</i>	AQ	Sousa, P. and C. Ramos, "A Dynamic Scheduling Holon for Manufacturing Orders," <i>Journal of Intelligent Manufacturing</i> , Volume 9, 1998, pp. 107-112						
<i>ELF</i>	AR	Upton, D.M., M.M. Barash, and A.M. Matheson, "Architectures and Auctions in Manufacturing," <i>International Journal of Computer Integrated Manufacturing</i> , Volume 4, 1991, pp. 23-33						
<i>ELF</i>	AS	Vaario, J. and K. Ueda, "An Emergent Modelling Method for Dynamic Scheduling," <i>Journal of Intelligent Manufacturing</i> , Volume 9, 1998, pp. 129-140						
Examiner	<i>ELF</i>	Date Considered	<i>1/14/03</i>					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-7511 US	09/825,225
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  TIP E JC&T OCT 15 2001		Applicant(s)	
(Use several sheets if necessary)		Larry D. Barto, et al	
		Filing Date	Group
		April 3, 2001	2812

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						
AB						
AC						
AD						RECEIVED MAR 14 2002
AE						Technology Center 2100
AF						
AC						
AH						
AI						
AJ						
AK						

## Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>ELF</i>	AQ	Weber, Alan, "Material Traceability - The Missing Link in TAP Systems," Presentation of the <i>Test, Assembly and Packaging Automation and Integration '99 Conference</i> .
<i>ELF</i>	AR	Weber, Alan "APC Framework: Raising the Standard for FAB Automation and Integration," Presentation of the <i>Equipment Automation Conference 1st European Symposium on Semiconductor Manufacturing</i> , April 19, 1999.
<i>ELF</i>	AS	Wein, Lawrence M., "Scheduling Semiconductor Wafer Fabrication," <i>IEEE Transactions on Semiconductor Manufacturing</i> , Vol. 1, No. 3, August 1998, pp. 115-130

Examiner *ELF* Date Considered *1/14/03*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Serial No.				
			M-7511 US	09/825,225				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>OCT 15 2001</i>			Applicant(s)					
(Use several sheets if necessary)			Larry D. Barto, et al					
			Filing Date	Group				
			April 3, 2001	2812				
U.S. Patent Documents								
*Examiner Initial	Document Number	Date	Name	Filing Date If Appropriate				
AA								
AB								
AC								
AD								
AE				<b>RECEIVED</b>				
AF				<b>MAR 14 2002</b>				
AG				<b>Technology Center 2100</b>				
AH								
AI								
AJ								
AK								
Foreign Patent Documents								
	Document	Date	Country	Class	Subclass	Translation	Yes	No
AL								
AM								
AN								
AO								
AP								
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>WF</i>	AQ	Wellman, M.P., W.E. Walsh, P.R. Wurman, J.K. MacKie-Mason, "Auction Protocols for Decentralized Scheduling," <a href="http://www-personal.engin.umich.edu/~wew/Papers/mb-scheduling-extended.ps.Z">http://www-personal.engin.umich.edu/~wew/Papers/mb-scheduling-extended.ps.Z</a> , University of Michigan, Ann Arbor, 1998						
	AR							
	AS							
Examiner <i>Elliot Et al</i>	Date Considered	<i>1/14/03</i>						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								